

AGILENT TECHNOLOGIES, INC.
 Legal Department, DL429
 Intellectual Property Administration
 P. O. Box 7589
 Loveland, Colorado 80537-0599

PATENT APPLICATION

ATTORNEY DOCKET NO. 10010214-1

IN THE
 UNITED STATES PATENT AND TRADEMARK OFFICE

Inventor(s): Brian James Misek et al

Serial No.: 09/821180

Examiner: Zamani Ali A.

Filing Date: Mar 28, 2001

Group Art Unit: 2674

Title: An Optical Mouse Having An Integrated Processor

COMMISSIONER FOR PATENTS
 Washington, D.C. 20231

TRANSMITTAL LETTER FOR RESPONSE/AMENDMENT

Sir:

Transmitted herewith is/are the following in the above-identified application:

- (X) Response/Amendment () Petition to extend time to respond
 () New fee as calculated below () Supplemental Declaration
 (X) No additional fee (Address envelope to "Box Non-Fee Amendments")
 () Other: _____ (fee \$ _____)

| CLAIMS AS AMENDED BY OTHER THAN A SMALL ENTITY | | | | | | |
|--|--|------------------------|--|-------------------------|-------------|---------------------------|
| (1) FOR | (2) CLAIMS REMAINING AFTER AMENDMENT | (3) NUMBER EXTRA | (4) HIGHEST NUMBER PREVIOUSLY PAID FOR | (5) PRESENT EXTRA | (6) RATE | (7) ADDITIONAL FEES |
| TOTAL CLAIMS | 8 | MINUS | 20 | = 0 | X \$18 | \$ 0 |
| INDEP. CLAIMS | 1 | MINUS | 3 | = 0 | X \$84 | \$ 0 |
| [] FIRST PRESENTATION OF A MULTIPLE DEPENDENT CLAIM | | | | | + \$280 | \$ 0 |
| EXTENSION FEE | 1ST MONTH \$110.00 | 2ND MONTH \$410.00 | 3RD MONTH \$930.00 | 4TH MONTH \$1450.00 | | \$ 0 |
| OTHER FEES | | | | | | \$ |
| TOTAL ADDITIONAL FEE FOR THIS AMENDMENT | | | | | | \$ 0 |

Charge \$ 0 to Deposit Account 50-1078. At any time during the pendency of this application, please charge any fees required or credit any overpayment to Deposit Account 50-1078 pursuant to 37 CFR 1.25. Additionally please charge any fees to Deposit Account 50-1078 under 37 CFR 1.16, 1.17, 1.19, 1.20 and 1.21. A duplicate copy of this sheet is enclosed.

I hereby certify that this paper is being facsimile
 transmitted to the Patent and Trademark Office on
 the date shown below.

Date of Facsimile: 01/28/2003

Typed Name: Katherine Lopez Diangson

Signature: Katherine Lopez Diangson

Respectfully submitted,

Brian James Misek et al

By Pamela Lau Kee

Pamela Lau Kee

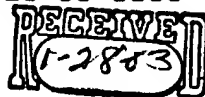
Attorney/Agent for Applicant(s)

Reg. No. 36,184

Date: 01/27/2003

Telephone No.: (408) 553-3059

Official



Attorney Docket # - 10010214-1

| | |
|---|--|
| <input type="checkbox"/> I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Commissioner for Patents, Washington, D.C. 20231. Date of Deposit: Typed Name: Signature: _____ | <input checked="" type="checkbox"/> I hereby certify that this correspondence is being facsimile transmitted to the Patent and Trademark Office on the date below: Date of Facsimile: 1/28/2003 Typed Name: Katherine Lopez Diangson Signature: <i>Katherine Lopez Diangson</i> |
|---|--|

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Inventor(s): Brian J. Misek

Examiner: Zamani, Ali A.

Serial No.: 09/821,180

Group Art: 2674

Filing Date: 03/28/2001

Title: Architecture for an Optical Mouse using an Integrated Processor

Amendment

#5/EOT^①
 RECONS.
 MAIL
 2/4/03

Dear Sir:

In an Office Action, dated 3 October 2002, having a three-month statutory period for response expiring 3 January 2002, enclosed is a one-month extension.

Claims 1-8 were rejected under 35 U.S.C. §103(a) as being unpatentable over Rosenberg *et al.* (U.S.P.N. 6,211,861 B1).

Rosenberg, *et al.* disclose a host controlled mouse that includes a local microprocessor 110 (within the mouse) that is dedicated to its haptic feedback and sensor I/Os (col. 11, lines 13-16). The local microprocessor reports data, e.g. locative data, to the host computer 14. The host computer 14 uses this data to update executed programs. Local microprocessor 110 execute instructions as provided by the host computer 14 (col. 11, lines 32-36). The local microprocessor 110 solely executes stored or relayed instructions (col. 11, lines 19-23).

In distinct contrast to the prior art, Applicants disclose a single IC that includes an optical sensor, an analog-to-digital converter, a microprocessor, RAM, programmable memory, an optional digital signal processor, and an optional hardware controller. The microprocessor 16

02/05/2003 MGRAVES 00000005 501070 09821180

Attorney Docket # - 10010214-1

allows the user to customize features such as navigation parameters, user interface operations, and power savings (paragraph [0004] and [0007]).

Nowhere does the prior art suggest or teach that all of the components within the mouse could be incorporated into a single integrated circuit as the Applicants have. In fact, the prior art teaches that the components within the housing are discrete components, e.g. MC68HC711E9 by Motorola (col. 11, lines 23-25). Nor is there a teaching that a navigation device could incorporate user customization. In claim 1 as recited, the unitary substrate includes an optical sensor, analog-to-digital converter, microprocessor, and memory. Claim 1 is believed patentable. Claims 2-8 are believed patentable based on the allowability of claim 1.

Conclusion

If the Examiner has any further questions or would like to discuss this application in more detail, he is invited to call the applicants' agent at the telephone number given below. The applicants respectfully suggest that the claims presently in the application are distinct over the prior art and that the application is now in condition for allowance. Accordingly, the applicants solicit favorable action.

Respectfully submitted,

Brian J. Misek

Pamela Lau Kee

Pamela Lau Kee

Patent Reg. No. 36,184

January 27, 2003
Agilent Technologies
Intellectual Properties Administration
Legal Department, M/S DL-429
815 SW 14th Street
Loveland, CO 80537
(408) 553-3059